


MEMORANDUM

TO : Participants and near-participants in the "1993" SERC winter bird count

FROM : Jim Lynch 

RE : Results of the count

DATE : 3 January 1994

This winter's count took place between 07:30 and 16:45 hrs on Sunday, 2 January 1994. After a week of snow and unseasonably cold temperatures that began on Christmas night, Sunday's weather proved excellent. Rain the previous evening had washed away much of the snow deposited by earlier storms, and early morning temperatures were just below freezing under partly cloudy skies. Some snow remained on the ground in sheltered areas, but depth was generally less than 2 inches. Most waterways were frozen, resulting in unusually low counts for ducks. The weather steadily warmed over the course of the count, reaching a high of ca. 50° F by mid-afternoon. Cloud cover fluctuated repeatedly from bright sunshine to overcast.

Volunteer turnout was light this year, with only 10 participants on hand. As in previous years, we split into four groups, each of which searched a different section of the lower Rhode River watershed (i.e., the area east of Muddy Creek Road between Camp Letts and Ivy Neck, including adjacent waterways). The SERC count area encompasses approximately 70 km², about 5% of the size of "standard" 1,810 km² Audubon Christmas count circles.

Despite the low turnout, the count yielded a near-record 68 species (70 species is the all-time record species total, reached last year with 17 people counting). We tallied three species that had never turned up on previous SERC winter counts (Hooded Merganser, Loggerhead Shrike, Savannah Sparrow), and repeated last year's records for several species that hadn't been encountered on SERC winter counts since the mid 1980's (Bald Eagle, Great Horned Owl, Gray Catbird). As usual, a few species known to be present in the count area (e.g., Bobwhite, Barred Owl) were missed, but overall the coverage this year was surprisingly good.

Thanks for making this year's count such a success. I hope to see all of you again for next year's effort!

cc: Ed Balinsky, Antonia Bava, Maria Coughlin, Liza Hamill, Mark Lynch, Ray Madden, Dan Niven, Ana Spector, Kirk Swenson, Greg Ruiz,

Winter of 1992-93

1993-94

³ Results of 1992 SERC winter bird count (count conducted ³ Jan 1993)

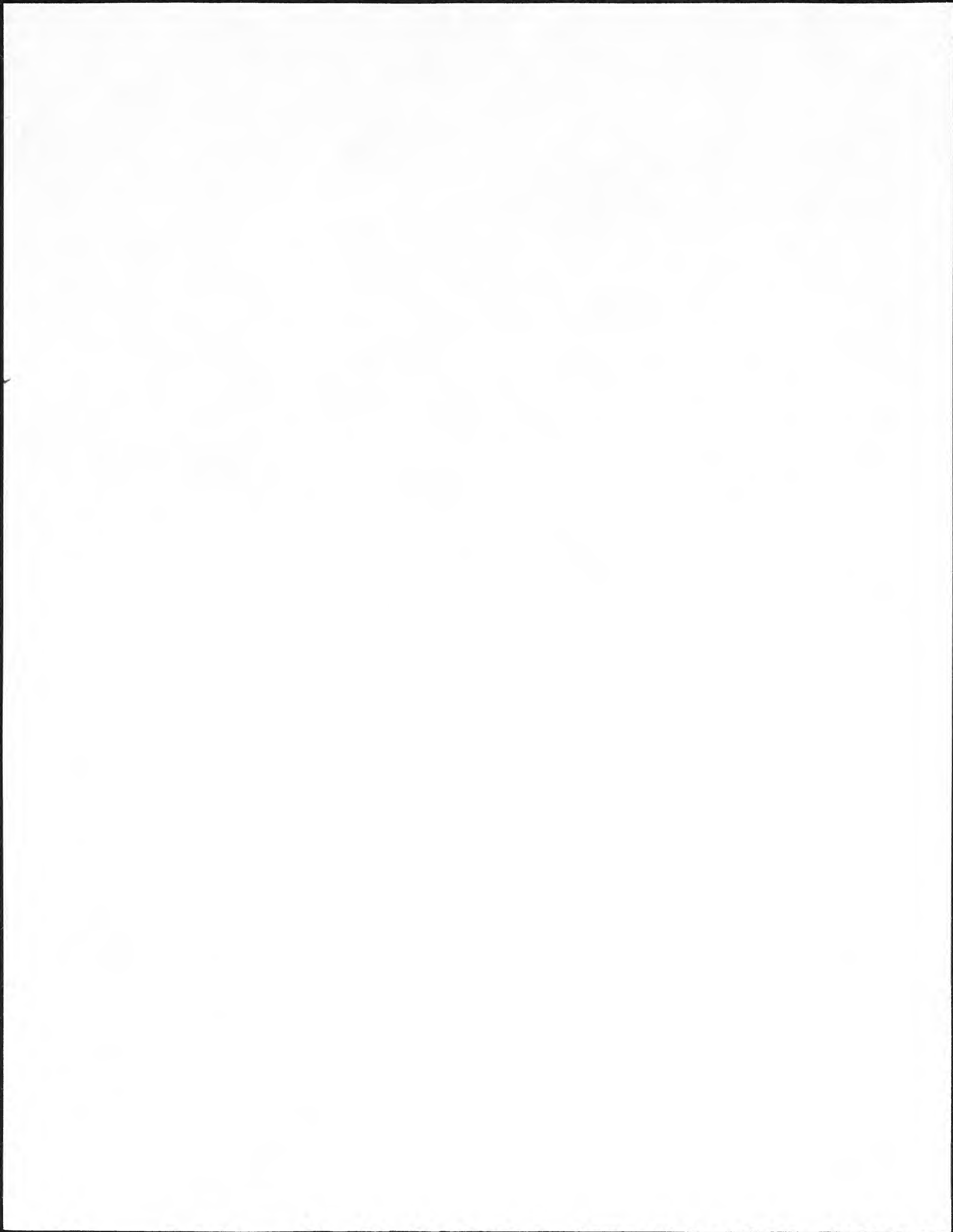
Number of observers: 10 Number of parties: 4 Party/hours: ca. 22 Km on foot: ca. 30
 Km in car: ca. 15 Total km: ca. 45 Weather: Partly cloudy to sunny; Temp: 30-50° F; Wind:
 calm to light; Discontinuous cover of soft snow (depth < 2 in.); creeks and inlets frozen
 Survey sectors: 1 - Camp Letts S. to Contee's Wharf Rd; 2 - Contee's Wharf Road S. to Muddy
 Cr.; 3 - Muddy Cr. S. to Cumberstone Rd.; 4 - Cumberstone Rd. S. to West R.

Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
1. Common Loon				1	1
2. Great Blue Heron	3	3	1	1	8
3. Tundra Swan	6		10	4	20
4. Canada Goose	874	50	150	9	1093
5. Mallard	5	2	25	2	34
6. Black Duck	22	5	40	5	72
7. Canvasback				11	11
8. Lesser Scaup				3	3
9. Common Goldeneye	1		1	2	4
10. Bufflehead	48	1	19	133	201
11. Ruddy Duck				4	4
12. Hooded Merganser				6	6
13. Turkey Vulture	3	6	5	3	17
14. Black Vulture	9	27	11		47
15. Bald Eagle				3	3
16. Sharp-shinned Hawk		1	1		2
17. Red-tailed Hawk	1		3	2	6
18. Red-should. Hawk	2	2			4
19. American Kestrel	1		1		2
20. Kildeer				1	1
21. Herring Gull	3	5		5	13
22. Ring-billed Gull	18	1	12		31
23. Gr. Black-b. Gull			3	1	4
24. Mourning Dove	6		15		21
25. Great Horned Owl			1		1
26. Belted Kingfisher	2	1	2		5
27. Common Flicker	20	2	15	4	41
28. Pileat. Woodpecker	1		2		3
29. Yellow-bellied Sapsucker	1	2	4		7
30. Hairy Woodpecker	1	3	5	1	10
31. Downy Woodpecker	9	7	8		24
32. Red-bellied Woodpecker	8	7	12	6	33
33. Common Crow	23	2	29	35	89
34. Fish Crow	2		1		3
35. Blue Jay	16	3	20	12	51
36. Loggerhead Shrike				1	1
37. Carolina Chickadee	23	8	20	7	58
38. Tufted Titmouse	12	6	14	6	38

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Results of 1992 SERC winter bird count (continued - p.2)

Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
39. White-br. Nuthatch		2	1		3
40. Brown Creeper		1	1	2	4
41. Carolina Wren	10	4	19	2	35
42. Marsh Wren			3		3
43. Winter Wren		1		3	4
44. N. Mockingbird	5	2	4	4	15
45. Gray Catbird				2	2
46. Brown Thrasher			1	1	2
47. American Robin	6	1	1	1	9
48. Hermit Thrush			3	1	4
49. Eastern Bluebird	9		1	25	35
50. Golden-cr. Kinglet	4	6	8	2	20
51. Cedar Waxwing			19	3	22
52. European Starling	24	7	95	7	133
53. Y.-rumped Warbler	6	1	1	1	9
54. House Sparrow			5		5
55. Red-w. Blackbird	10		30		40
56. E. Meadowlark			5		5
57. Common Grackle			2		2
58. N. Cardinal	12	12	30	15	69
59. House Finch	1	4	8		13
60. American Goldfinch	3	2	12	1	18
61. Rufous-s. Towhee	2	1	3		6
62. Dark-eyed Junco	79	7	12	1	99
63. Field Sparrow	10			26	36
64. White-thr. Sparrow	24	25	140	3	192
65. Wh.-cr. Sparrow				1	1
66. Swamp Sparrow		6	19		25
67. Song Sparrow	6	10	36	12	64
68. Savannah Sparrow				1	1
Number of species	43	37	54	46	68





SERC Winter Bird Checklist

Date 2 Jan 94 Sector 1-4

Party Size _____ Party Hrs _____

Miles: Foot _____ Car _____ Boat _____ Total _____

Observers _____

Species	SECTOR				
	1	2	3	4	Σ
Great Blue Heron	3	3	1	1	8
Tundra Swan	6	0	10	4	20
Canada Goose	87	45	50	9	109
Mallard	52	25	2	3	82
Black Duck	22	5	40	5	72
Wood Duck	0	0	0	0	0
Redhead	0	0	0	0	0
Canvasback	0	0	0	11	11
Lesser scaup	0	0	0	3	3
Comm. Goldeneye	1	0	1	2	4
Bufflehead	48	1	19	33	201
Ruddy Duck	0	0	0	4	4
Red-br. Merganser	0	0	0	0	0
Turkey Vulture	3	8	5	3	19
Black Vulture	9	27	11	0	47
Bald Eagle	0	0	0	3	3
Sharp-shinned Hawk	0	1	1	0	2
Red-tailed Hawk	1	0	3	2	6
Red-shouldered Hawk	2	2	0	0	4
American Kestrel	1	0	1	0	2
Bobwhite	0	0	0	0	0
Killdeer	0	0	0	1	1
Herring Gull	2	0	6	0	8
Ring-billed Gull	18	1	12	0	31
Gr. Black-backed Gull	0	0	3	1	4
Mourning Dove	6	0	15	0	21
Great Horned Owl	0	0	1	0	1
Barred Owl	0	0	0	0	0
Belted Kingfisher	2	1	2	0	5
Common Flicker	20	2	15	4	41
Pileated Woodpecker	1	0	2	0	3
Y.-bellied Sapsucker	1	2	4	0	7
Hairy Woodpecker	1	3	5	1	10
Downy Woodpecker	9	7	8	0	24
Red-bellied Woodpecker	8	7	12	6	33
Common Crow	23	2	29	35	89
Fish Crow	2	0	1	0	3
Blue Jay	16	3	20	12	51

Species	SECTOR				
	1	2	3	4	Σ
Carolina Chickadee	23	8	20	7	58
Tufted Titmouse	12	6	14	6	38
White-br. Nuthatch	0	2	1	0	3
Red-br. Nuthatch	0	0	0	0	0
Brown Creeper	0	1	1	2	4
Carolina Wren	10	4	19	2	35
Long-b. Marsh Wren	0	0	3	0	3
Winter Wren	0	1	0	3	4
Mockingbird	5	2	4	4	15
Gray Catbird	0	0	0	2	2
American Robin	6	1	1	1	9
Hermit Thrush	0	0	3	1	4
Eastern Bluebird	9	0	1	25	35
Golden-cr. Kinglet	4	6	8	2	20
Ruby-cr. Kinglet	0	0	0	0	0
Cedar Waxwing	0	0	19	3	22
European Starling	24	7	95	7	133
Yell.-rumped Warbler	6	1	1	1	9
House Sparrow	0	0	5	0	5
Red-winged Blackbird	10	0	30	0	40
Eastern Meadowlark	0	0	5	0	5
Common Grackle	0	0	2	0	2
Brown-headed Cowbird	0	0	0	0	0
Northern Cardinal	12	12	30	15	69
Purple Finch	0	0	0	0	0
House Finch	1	4	8	0	13
Am. Goldfinch	3	2	12	1	18
Ruf.-sided Towhee	2	1	3	0	6
Dark-eyed Junco	79	7	12	1	99
Field Sparrow	10	0	0	26	36
Wh.-throated Sparrow	24	25	140	3	192
Swamp Sparrow	0	6	49	0	55
Song Sparrow	6	10	36	12	64
HOODED MERGANSER	0	0	0	6	6
LOGGERHEAD SHRIKE	0	0	0	1	1
BROWN THRASHER	0	0	1	1	2
COMMON LOON	0	0	0	1	1
SAVANNAH SPARROW	0	0	0	1	1
ΣΣ species	43	37	54	46	180

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

WHITE CROWN SPARROW

0	0	0	1	1
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Area 2

3

0
0

Area 4

WALNUT

Black Duck

} mixed 180

Small BUFFLEHEAD

or

Ruddy Head

} 500

Hooded Merganser

3 female

3 male

Culls

10 Zone 4

~~not~~ unknown

0 Zone 3

Zone 3

874
209

1083

²
49
19

153
201

1

36
11

15

18

52

140

16
⁸

24

12
39

1

24
45

69

31

38

95

133

88
6

80

19

SERC Winter Bird Checklist

Date_____ Sector_____
 Party Size_____ Party Hrs_____
 Miles: Foot____ Car____ Boat____ Total_____

Observers_____

Species	Individuals	Species	Individuals
Great Blue Heron		Carolina Chickadee	
Tundra Swan		Tufted Titmouse	
Canada Goose		White-br. Nuthatch	
Mallard		Red-br. Nuthatch	
Black Duck		Brown Creeper	
Wood Duck		Carolina Wren	
Redhead		Long-b. Marsh Wren	
Canvasback		Winter Wren	
Lesser scaup		Mockingbird	
Comm. Goldeneye		Gray Catbird	
Bufflehead		American Robin	
Ruddy Duck		Hermit Thrush	
Red-br. Merganser		Eastern Bluebird	
Turkey Vulture		Golden-cr. Kinglet	
Black Vulture		Ruby-cr. Kinglet	
Bald Eagle		Cedar Waxwing	
Sharp-shinned Hawk		European Starling	
Red-tailed Hawk		Yell.-rumped Warbler	
Red-shouldered Hawk		House Sparrow	
American Kestrel		Red-winged Blackbird	
Bobwhite		Eastern Meadowlark	
Killdeer		Common Grackle	
Herring Gull		Brown-headed Cowbird	
Ring-billed Gull		Northern Cardinal	
Gr. Black-backed Gull		Purple Finch	
Mourning Dove		House Finch	
Great Horned Owl		Am. Goldfinch	
Barred Owl		Ruf.-sided Towhee	
Belted Kingfisher		Dark-eyed Junco	
Common Flicker		Field Sparrow	
Pileated Woodpecker		Wh.-throated Sparrow	
Y.-bellied Sapsucker		Swamp Sparrow	
Hairy Woodpecker		Song Sparrow	
Downy Woodpecker			
Red-bellied Woodpecker			
Common Crow			
Fish Crow			
Blue Jay			

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

SERC Winter Bird Checklist

Observers Greg Ruiz ; Anna Spector

Date 1-2-94 Sector 2
 Party Size 2 Party Hrs 3 1/2
 Miles: Foot 3 Car Boat Total 3

Species	Individuals	Species	Individuals
Great Blue Heron	2	Carolina Chickadee	3
Tundra Swan		Tufted Titmouse	2
Canada Goose		White-br. Nuthatch	
Mallard	2	Red-br. Nuthatch	
Black Duck		Brown Creeper	
Wood Duck		Carolina Wren	
Redhead		Long-b. Marsh Wren	
Canvasback		Winter Wren	
Lesser scaup		Mockingbird	
Comm. Goldeneye		Gray Catbird	
Bufflehead	1	American Robin	1
Ruddy Duck		Hermit Thrush	
Red-br. Merganser		Eastern Bluebird	
Turkey Vulture	2	Golden-cr. Kinglet	2
Black Vulture		Ruby-cr. Kinglet	
Bald Eagle		Cedar Waxwing	
Sharp-shinned Hawk		European Starling	1
Red-tailed Hawk		Yell.-rumped Warbler	1
Red-shouldered Hawk		House Sparrow	
American Kestrel		Red-winged Blackbird	
Bobwhite		Eastern Meadowlark	
Killdeer		Common Grackle	
Herring Gull		Brown-headed Cowbird	
Ring-billed Gull	1	Northern Cardinal	4
Gr. Black-backed Gull		Purple Finch	
Mourning Dove		House Finch	
Great Horned Owl		Am. Goldfinch	2
Barred Owl		Ruf.-sided Towhee	
Belted Kingfisher	1	Dark-eyed Junco	
Common Flicker		Field Sparrow	
Pileated Woodpecker		Wh.-throated Sparrow	1
Y.-bellied Sapsucker		Swamp Sparrow	
Hairy Woodpecker	3	Song Sparrow	
Downy Woodpecker	3	<u>Hooded Merganser</u>	<u>6</u>
Red-bellied Woodpecker	3		
Common Crow			
Fish Crow			
Blue Jay	1		

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

79
54
133

SERC Winter Bird Checklist

Observers Greg Ruiz, Maria Cogland, Michael

Date 1/2/93 Sector 4
Party Size 3 Party Hrs 4.5
Miles: Foot 5 Car - Boat - Total 5

180 mixed
Mixed flock
black duck
& mallards
80

area 2
+10?

Species	Individuals
(1) Great Blue Heron	(1) (2) (3) 11
(4) Tundra Swan	254
(4) Canada Goose	
(2) Mallard	2 (2)
(5) Black Duck	2+1 (5)
Wood Duck	
Redhead	
(11) Canvasback	8+3 (11)
(3) Lesser scaup	1+3 (3)
(2) Comm. Goldeneye	2 (2)
(133) Bufflehead	65+14 52
(4) Ruddy Duck	(4) (2)
Red-br. Merganser	
(3) Turkey Vulture	1+1
Black Vulture	
(3) Bald Eagle	2+1
Sharp-shinned Hawk	
(2) Red-tailed Hawk	1
Red-shouldered Hawk	
American Kestrel	
Bobwhite	
(1) Killdeer	1
Herring Gull	
Ring-billed Gull	
(1) Gr. Black-backed Gull	*
Mourning Dove	
Great Horned Owl	
Barred Owl	
Belted Kingfisher	
(4) Common Flicker	1
Pileated Woodpecker	
Y.-bellied Sapsucker	
(1) Hairy Woodpecker	1
Downy Woodpecker	
(6) Red-bellied Woodpecker	2+3
(35) Common Crow	1+14 6+3
Fish Crow	
(12) Blue Jay	3+1 4+5

Species	Individuals
(7) Carolina Chickadee	4 3
(6) Tufted Titmouse	1 (5) 2+3
White-br. Nuthatch	
Red-br. Nuthatch	
(2) Brown Creeper	2
(2) Carolina Wren	1 1
Long-b. Marsh Wren	
(3) Winter Wren	1 2
(4) Mockingbird	1+1 (2) 1+1
(2) Gray Catbird	1
(1) American Robin	1
(1) Hermit Thrush	1
(26) Eastern Bluebird	25
(2) Golden-cr. Kinglet	2
Ruby-cr. Kinglet	
(3) Cedar Waxwing	3
(7) European Starling	6 1
(1) Yell.-rumped Warbler	1
House Sparrow	
Red-winged Blackbird	
Eastern Meadowlark	
Common Grackle	
Brown-headed Cowbird	
(15) Northern Cardinal	1+3 2 (6) 1 (8) 4+2
Purple Finch	
House Finch	
(1) Am. Goldfinch	1
Ruf.-sided Towhee	
(1) Dark-eyed Junco	1
(26) Field Sparrow	14, 9, 3 (26)
(3) Wh.-throated Sparrow	2 1
Swamp Sparrow	
(12) Song Sparrow	4 8
(1) Loggerhead Shrike	1
(1) Brown Thrasher	1
(1) Savannah Sparrow	1

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

7 areal

SERC Winter Bird Checklist

Observers Dan Nevin, Anna Spicker
Kirk Swenson, Ray

① Dan, Kirk, Anna, Ray 7:30 - 12:30

5 hrs

~~Anna, Ray~~

② Kirk, Ray 1:00 - 2:00

1 hr

③ Kirk 2:00 - 4:30

2 1/2 hrs

Date 1-2-94 Sector 3

Party Size Party Hrs

Miles: Foot Car Boat Total

Species	Individuals
Great Blue Heron	2 1/1
Tundra Swan	10
Canada Goose	125, 25/50 150/50
Mallard	20 + 5 25
Black Duck	40 40/5
Wood Duck	
Redhead	
Canvasback	
Lesser scaup	
Comm. Goldeneye	1
Bufflehead	19
Ruddy Duck	
Red-br. Merganser	
Turkey Vulture	11 5/6
Black Vulture	27 1/2
Bald Eagle	
Sharp-shinned Hawk	2 1/1
Red-tailed Hawk	3
Red-shouldered Hawk	2 0/2
American Kestrel	1
Bobwhite	
Killdeer	
Herring Gull	6
Ring-billed Gull	12
Gr. Black-backed Gull	3
Mourning Dove	15
Great Horned Owl	1
Barred Owl	
Belted Kingfisher	2
Common Flicker	17 15/2
Pileated Woodpecker	2
Y.-bellied Sapsucker	5 4/2
Hairy Woodpecker	5
Downy Woodpecker	12 8/4
Red-bellied Woodpecker	16 12/4
Common Crow	31 29/2
Fish Crow	1
Blue Jay	22 20/2

Species	Individuals
Carolina Chickadee	25 20/5
Tufted Titmouse	18 14/4
White-br. Nuthatch	3 1/2
Red-br. Nuthatch	
Brown Creeper	2 1/1
Carolina Wren	23 19/4
Long-b. Marsh Wren	3
Winter Wren	1 0/1
Mockingbird	6 4/2
Gray Catbird	
American Robin	1
Hermit Thrush	3
Eastern Bluebird	1
Golden-cr. Kinglet	12 8/4
Ruby-cr. Kinglet	
Cedar Waxwing	19
European Starling	101 95/6
Yell.-rumped Warbler	1
House Sparrow	5
Red-winged Blackbird	30
Eastern Meadowlark	5
Common Grackle	2
Brown-headed Cowbird	
Northern Cardinal	38 30/8
Purple Finch	
House Finch	12 8/4
Am. Goldfinch	12
Ruf.-sided Towhee	4 3/1
Dark-eyed Junco	19 14/7
Field Sparrow	
Wh.-throated Sparrow	165 140/25
Swamp Sparrow	25 19/6
Song Sparrow	46 36/10
Crow sp.	3
Gull sp.	6
Barn Swallow	1

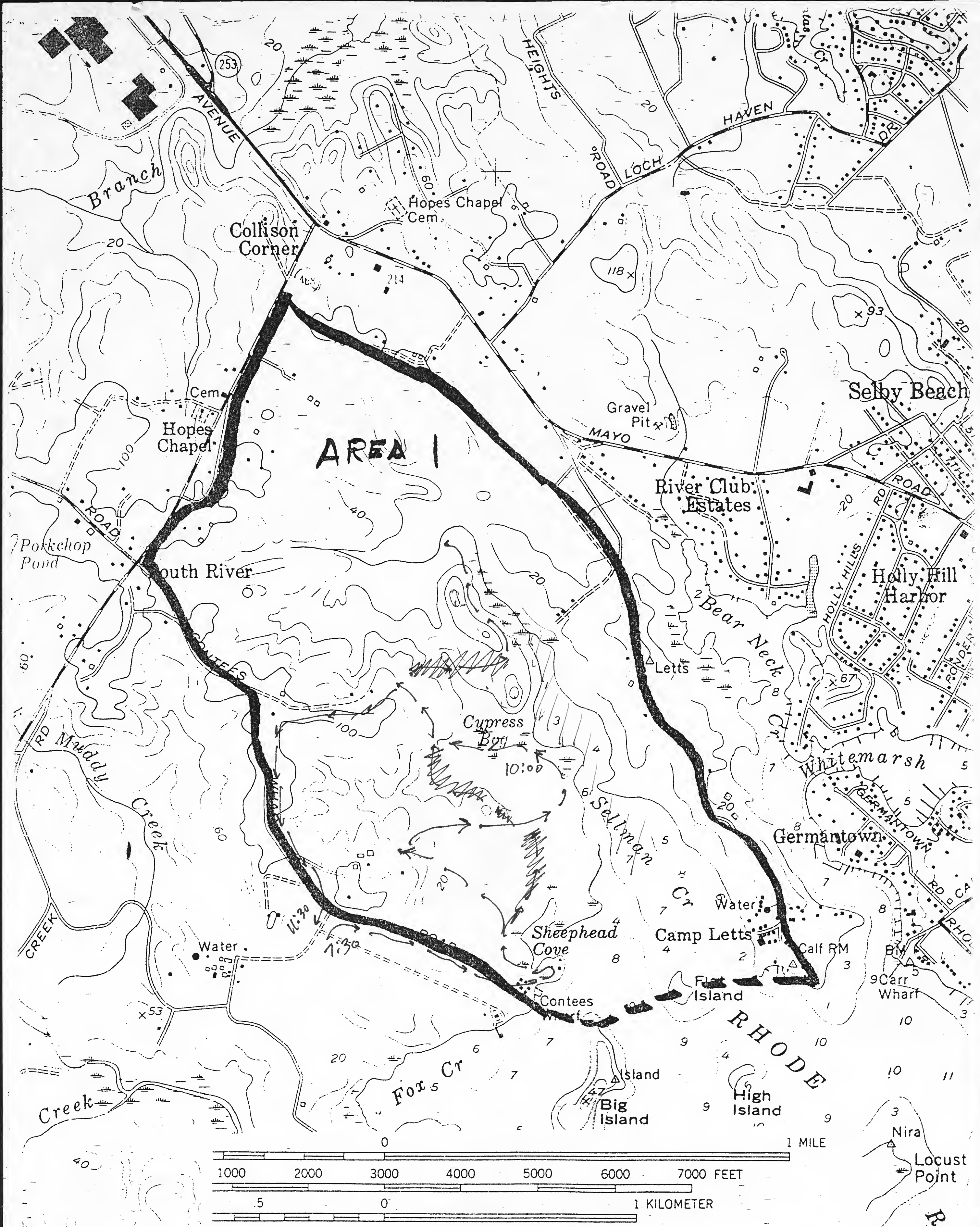
Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow

Observers VFL, ECR, TB

Date 2 Jan 94 Sector 1
Party Size 3 Party Hrs 7
Miles: Foot Car Boat Total

[illegible]

Rare or sporadic at SERC in winter: Comm. Loon, Red-thr. Loon, Pied-b. grebe, Horned Grebe, Pintail, Am. Widgeon, Green-w. Teal, Cooper's Hawk, Am. Coot, Am. Woodcock, Comm. Snipe, Rock Dove, Semi-palmated Plover, Screech Owl, Red-headed Woodpecker, E. Phoebe, Evening Grosbeak, Pine Siskin, Wh.-crowned Sparrow, Fox Sparrow, Chipping Sparrow, Tree Sparrow



CONTOUR INTERVAL 20 FEET

JPL ECB, TB 2 Jan 94

R 11

*Jim L
for Ed. Bolinsky*

GUIDELINES FOR BEHIND-THE-SCENES VOLUNTEERS
PARTICIPATING ON FIELD PROJECTS

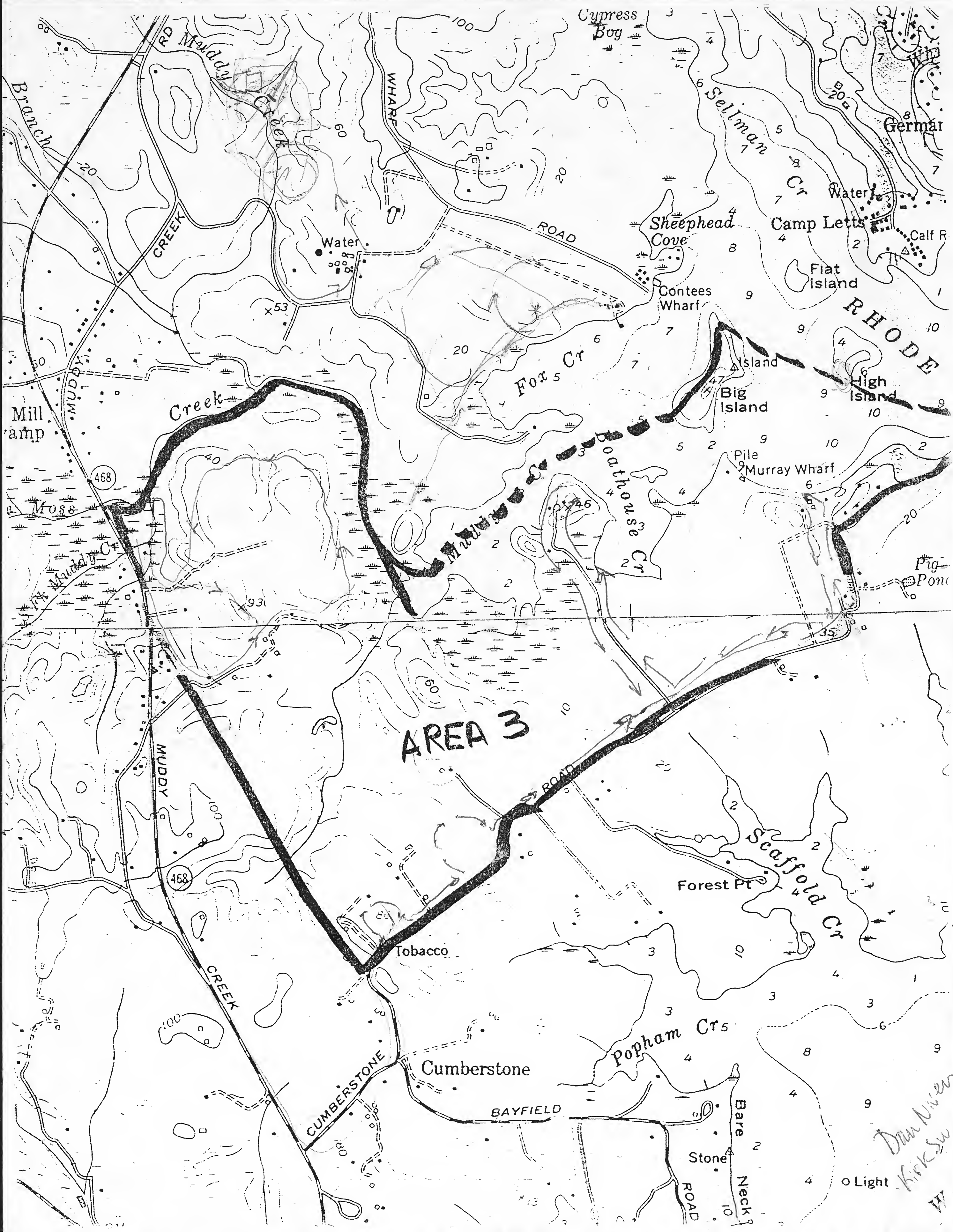
- ° It is imperative that the Behind-the-Scenes Volunteer Program be advised of a volunteer's intent to work on a field project.

- ° The following forms must be completed and returned to the Behind-the-Scenes Volunteer Program prior to the volunteer's departure for the field project:

"Registration Form for Volunteer Field Project" (to be completed by the volunteer). The registration form must include the volunteer's duties while in the field, the volunteer's business/volunteer experience and special skills relative to the field project, the exact duration (excluding travel time to and from the field project location), and the name of the Smithsonian field supervisor.

"Project Description for Volunteers Working in the Field" (to be completed by the Smithsonian field supervisor). The project description must include the location of work, the exact duration (excluding travel time to and from the field project location), and the volunteer's business/volunteer experience and special skills relative to the field project. The department chairman's signature must be included on this form.

- ° A time and attendance sheet must be maintained by the volunteer while in the field and must be returned to the Behind-the-Scenes Volunteer Program upon completion of the project.
- ° The Office of the General Counsel advises that all volunteers must work under the direct supervision of Smithsonian paid staff.
- ° If you have any questions concerning these guidelines or need additional forms please contact the Behind-the-Scenes Volunteer Program at 357-2987.



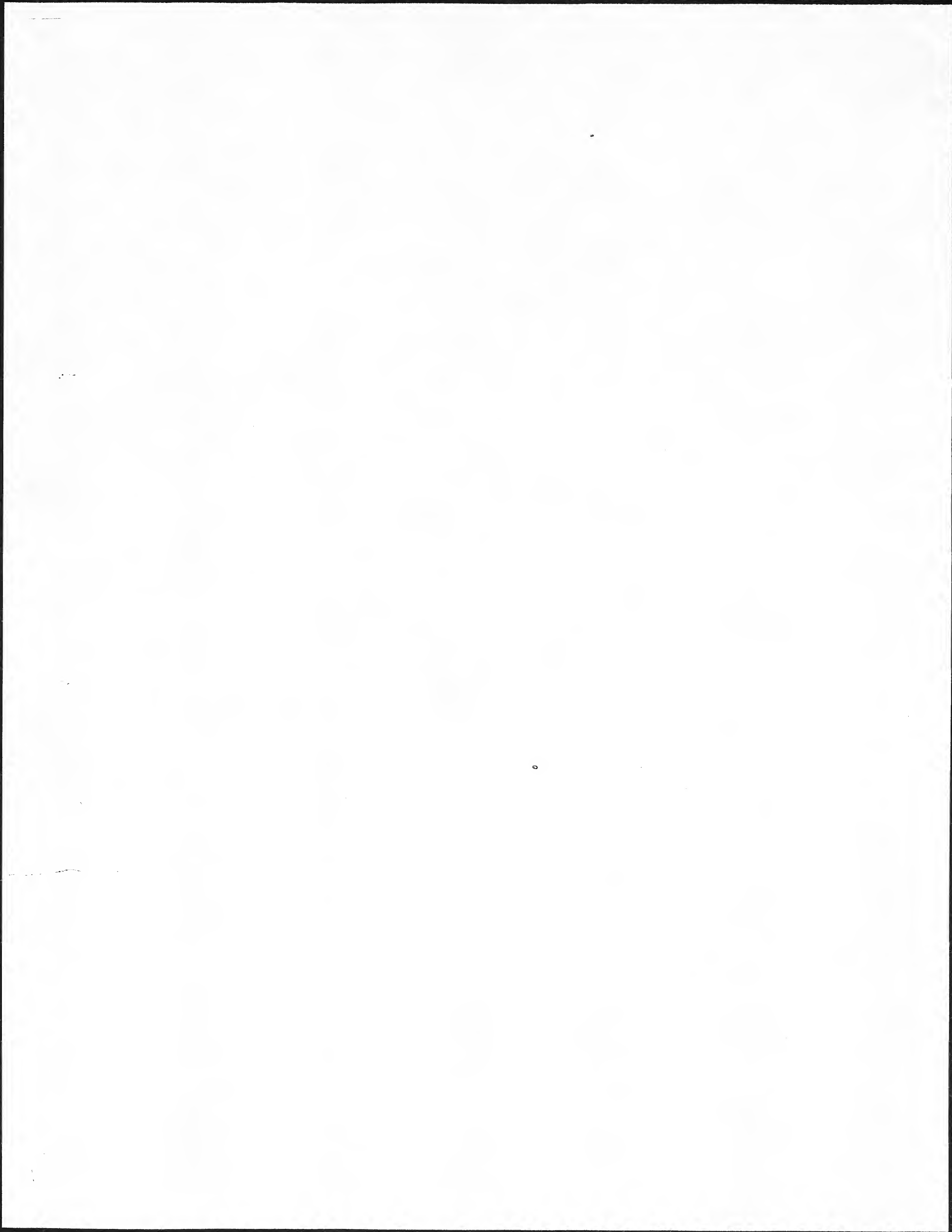
Summary of SERC Winter Bird Counts (1983,1989,1990,1991,1992,1993)

Species	Total Individuals					
	'93	'92	'91	'90	'89	'83
1. Common Loon	1	3	1			
2. Great Blue Heron	8	4	1	4	8	3
3. Tundra Swan	20	85	2	131	68	52
4. Mute Swan		2				
5. Canada Goose	1,098	556	209	1,019	1,477	709
6. Mallard	34	7	19	10	6	52
7. Black Duck	72	62	152	81	40	84
8. Wood Duck			2			
9. Redhead				2		
10. Canvasback	11	180	121	34	1,326	80
11. Lesser Scaup	3	1				
12. Greater Scaup		101				
--. Scaup sp.		276	42	2	206	
13. Ring-necked Duck			3			
14. Common Goldeneye	4	60	3			62
15. Bufflehead	201	451	75	42	52	80
16. Ruddy Duck	4				88	1
17. Red-breasted Merganser		7				1
18. Hooded Merganser	6					
19. Oldsquaw		4	12			
20. Turkey Vulture	19	16	16	39	25	44
21. Black Vulture	47	29	24	5	9	18
22. Bald Eagle	3	3				1
23. Sharp-shinned Hawk	2	1			1	3
24. Red-tailed Hawk	6	4	1	5	5	1
25. Red-shouldered Hawk	4	9	4	4	7	5
26. American Kestrel	2	1	3	4	1	1
27. Marsh Harrier		1				
28. Bobwhite					6	
29. Virginia Rail		1				
30. Kildeer	1			9	4	15
31. Woodcock					1	
32. Herring Gull	8	13	3	10	80	9
33. Ring-billed Gull	31	194	6	23	2	22
34. Great Black-backed Gull	4	5	1	1	1	3
35. Mourning Dove	21	82	8	14	3	40
36. Great Horned Owl	1	1				1
37. Barred Owl				1	1	
38. Barn Owl		1	1			
39. Belted Kingfisher	5	6	2	4	4	4
40. Common Flicker	41	52	25	40	39	51
41. Pileated Woodpecker	3	11	3	18	9	6
42. Red-bellied Woodpecker	33	52	14	23	47	71
43. Yellow-bellied Sapsucker	7	8	5	11	10	6
44. Hairy Woodpecker	9	10	5	13	6	9
45. Downy Woodpecker	24	32	9	19	26	56

Summary of SERC Winter Bird Counts (p.2)

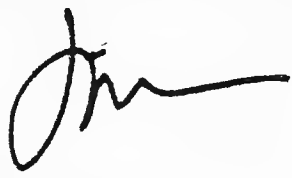
Species	'93	'92	'91	'90	'89	'83
46. Red-headed Woodpecker			3		1	
47. Eastern Phoebe		1	1		2	
48. Blue Jay	51	44	14	35	53	98
49. Common Crow	89	54	45	18	53	105
50. Fish Crow	3			2	1	
51. Carolina Chickadee	58	101	36	87	56	171
52. Tufted Titmouse	38	41	18	43	43	63
53. White-br. Nuthatch	3	3		7	10	8
54. Red-breasted Nuthatch					2	
55. Brown Creeper	4	8	1	10	8	11
56. Winter Wren	4	3		4	6	7
57. Carolina Wren	35	84	26	43	54	21
58. Marsh Wren	3					1
59. Northern Mockingbird	15	20	15	8	20	23
60. Gray Catbird	2	1				1
61. Brown Thrasher	2	3	2			
62. American Robin	9	100		27	38	24
63. Hermit Thrush	4	26		1	13	2
64. Eastern Bluebird	35	17	3	44	16	15
65. Golden-crowned Kinglet	20	7	9	17	22	12
66. Ruby-crowned Kinglet		3	1	1	3	5
67. Cedar Waxwing	22	17	15	76	18	53
68. European Starling	133	267	476	122	11	301
69. Yellow-rumped Warbler	6	35	15	58	42	54
70. House Sparrow	5	42	4	37	10	109
71. Red-winged Blackbird	40	68	901	110	1	113
72. Eastern Meadowlark	5	12			15	
73. Common Grackle	2	2	900	329		
74. Brown-headed Cowbird				3		1
75. Northern Cardinal	69	100	50	78	137	139
76. Purple Finch		1		34		7
77. House Finch	13	17	1	7		
78. American Goldfinch	18	125	17	9	4	29
79. Rufous-sided Towhee	6	21	7	6	9	8
80. Dark-eyed Junco	99	144	31	91	148	215
81. Chipping Sparrow				1		
82. Field Sparrow	36	53	9	17	6	10
83. White-throated Sparrow	192	352	120	119	331	364
84. White-crowned Sparrow	1				1	
85. Savannah Sparrow	1					
86. Swamp Sparrow	25	20	5	5	1	26
87. Song Sparrow	64	34	28	44	54	55
88. Fox Sparrow					1	

Year	1993	1992	1991	1990	1989	1983
Total Species	68	70	57	60	65	61
Total Individuals	2,845	4,215	3,508	3,053	4,768	3,522



MEMORANDUM

TO : Participants and near-participants in the "1993" SERC winter bird count

FROM : Jim Lynch 

RE : Results of the count

DATE : 3 January 1994

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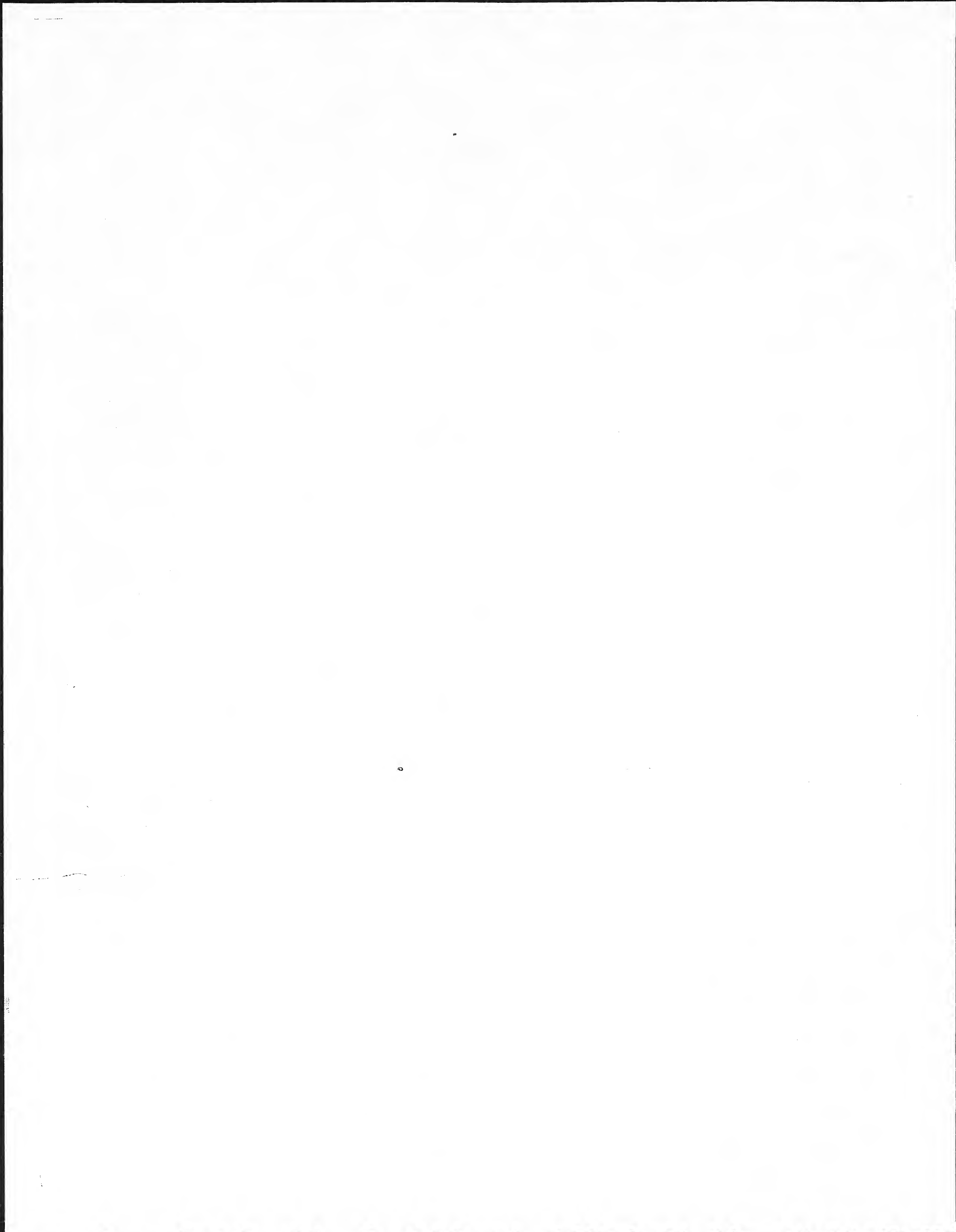
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 Survey sectors: 1 - Camp Letts S. to Contee's Wharf Rd; 2 - Contee's Wharf Road S. to Muddy
 Cr.; 3 - Muddy Cr. S. to Cumberstone Rd.; 4 - Cumberstone Rd. S. to West R.

Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
1. Common Loon				1	1
2. Great Blue Heron	3	3	1	1	8
3. Tundra Swan	6		10	4	20
4. Canada Goose	874	50	150	9	1093
5. Mallard	5	2	25	2	34
6. Black Duck	22	5	40	5	72
7. Canvasback				11	11
8. Lesser Scaup				3	3
9. Common Goldeneye	1		1	2	4
10. Bufflehead	48	1	19	133	201
11. Ruddy Duck				4	4
12. Hooded Merganser				6	6
13. Turkey Vulture	3	6	5	3	17
14. Black Vulture	9	27	11		47
15. Bald Eagle				3	3
16. Sharp-shinned Hawk		1	1		2
17. Red-tailed Hawk	1		3	2	6
18. Red-should. Hawk	2	2			4
19. American Kestrel	1		1		2
20. Kildeer				1	1
21. Herring Gull	3	5		5	13
22. Ring-billed Gull	18	1	12		31
23. Gr. Black-b. Gull			3	1	4
24. Mourning Dove	6		15		21
25. Great Horned Owl			1		1
26. Belted Kingfisher	2	1	2		5
27. Common Flicker	20	2	15	4	41
28. Pileat. Woodpecker	1		2		3
29. Yellow-bellied Sapsucker	1	2	4		7
30. Hairy Woodpecker	1	3	5	1	10
31. Downy Woodpecker	9	7	8		24
32. Red-bellied Woodpecker	8	7	12	6	33
33. Common Crow	23	2	29	35	89
34. Fish Crow	2		1		3
35. Blue Jay	16	3	20	12	51
36. Loggerhead Shrike				1	1
37. Carolina Chickadee	23	8	20	7	58
38. Tufted Titmouse	12	6	14	6	38

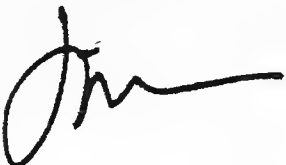
Results of 1992 SERC winter bird count (continued - p.2)

Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
39. White-br. Nuthatch		2	1		3
40. Brown Creeper		1	1	2	4
41. Carolina Wren	10	4	19	2	35
42. Marsh Wren			3		3
43. Winter Wren		1		3	4
44. N. Mockingbird	5	2	4	4	15
45. Gray Catbird				2	2
46. Brown Thrasher			1	1	2
47. American Robin	6	1	1	1	9
48. Hermit Thrush			3	1	4
49. Eastern Bluebird	9		1	25	35
50. Golden-cr. Kinglet	4	6	8	2	20
51. Cedar Waxwing			19	3	22
52. European Starling	24	7	95	7	133
53. Y.-rumped Warbler	6	1	1	1	9
54. House Sparrow			5		5
55. Red-w. Blackbird	10		30		40
56. E. Meadowlark			5		5
57. Common Grackle			2		2
58. N. Cardinal	12	12	30	15	69
59. House Finch	1	4	8		13
60. American Goldfinch	3	2	12	1	18
61. Rufous-s. Towhee	2	1	3		6
62. Dark-eyed Junco	79	7	12	1	99
63. Field Sparrow	10			26	36
64. White-thr. Sparrow	24	25	140	3	192
65. Wh.-cr. Sparrow				1	1
66. Swamp Sparrow		6	19		25
67. Song Sparrow	6	10	36	12	64
68. Savannah Sparrow				1	1
Number of species	43	37	54	46	68



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Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
1. Common Loon				1	1
2. Great Blue Heron	3	3	1	1	8
3. Tundra Swan	6		10	4	20
4. Canada Goose	874	50	150	9	1093
5. Mallard	5	2	25	2	34
6. Black Duck	22	5	40	5	72
7. Canvasback				11	11
8. Lesser Scaup				3	3
9. Common Goldeneye	1		1	2	4
10. Bufflehead	48	1	19	133	201
11. Ruddy Duck				4	4
12. Hooded Merganser				6	6
13. Turkey Vulture	3	6	5	3	17
14. Black Vulture	9	27	11		47
15. Bald Eagle				3	3
16. Sharp-shinned Hawk		1	1		2
17. Red-tailed Hawk	1		3	2	6
18. Red-should. Hawk	2	2			4
19. American Kestrel	1		1		2
20. Kildeer				1	1
21. Herring Gull	3	5		5	13
22. Ring-billed Gull	18	1	12		31
23. Gr. Black-b. Gull			3	1	4
24. Mourning Dove	6		15		21
25. Great Horned Owl			1		1
26. Belted Kingfisher	2	1	2		5
27. Common Flicker	20	2	15	4	41
28. Pileat. Woodpecker	1		2		3
29. Yellow-bellied Sapsucker	1	2	4		7
30. Hairy Woodpecker	1	3	5	1	10
31. Downy Woodpecker	9	7	8		24
32. Red-bellied Woodpecker	8	7	12	6	33
33. Common Crow	23	2	29	35	89
34. Fish Crow	2		1		3
35. Blue Jay	16	3	20	12	51
36. Loggerhead Shrike				1	1
37. Carolina Chickadee	23	8	20	7	58
38. Tufted Titmouse	12	6	14	6	38

Results of 1992 SERC winter bird count (continued - p.2)

Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
39. White-br. Nuthatch		2	1		3
40. Brown Creeper		1	1	2	4
41. Carolina Wren	10	4	19	2	35
42. Marsh Wren			3		3
43. Winter Wren		1		3	4
44. N. Mockingbird	5	2	4	4	15
45. Gray Catbird				2	2
46. Brown Thrasher			1	1	2
47. American Robin	6	1	1	1	9
48. Hermit Thrush			3	1	4
49. Eastern Bluebird	9		1	25	35
50. Golden-cr. Kinglet	4	6	8	2	20
51. Cedar Waxwing			19	3	22
52. European Starling	24	7	95	7	133
53. Y.-rumped Warbler	6	1	1	1	9
54. House Sparrow			5		5
55. Red-w. Blackbird	10		30		40
56. E. Meadowlark			5		5
57. Common Grackle			2		2
58. N. Cardinal	12	12	30	15	69
59. House Finch	1	4	8		13
60. American Goldfinch	3	2	12	1	18
61. Rufous-s. Towhee	2	1	3		6
62. Dark-eyed Junco	79	7	12	1	99
63. Field Sparrow	10			26	36
64. White-thr. Sparrow	24	25	140	3	192
65. Wh.-cr. Sparrow				1	1
66. Swamp Sparrow		6	19		25
67. Song Sparrow	6	10	36	12	64
68. Savannah Sparrow				1	1
Number of species	43	37	54	46	68

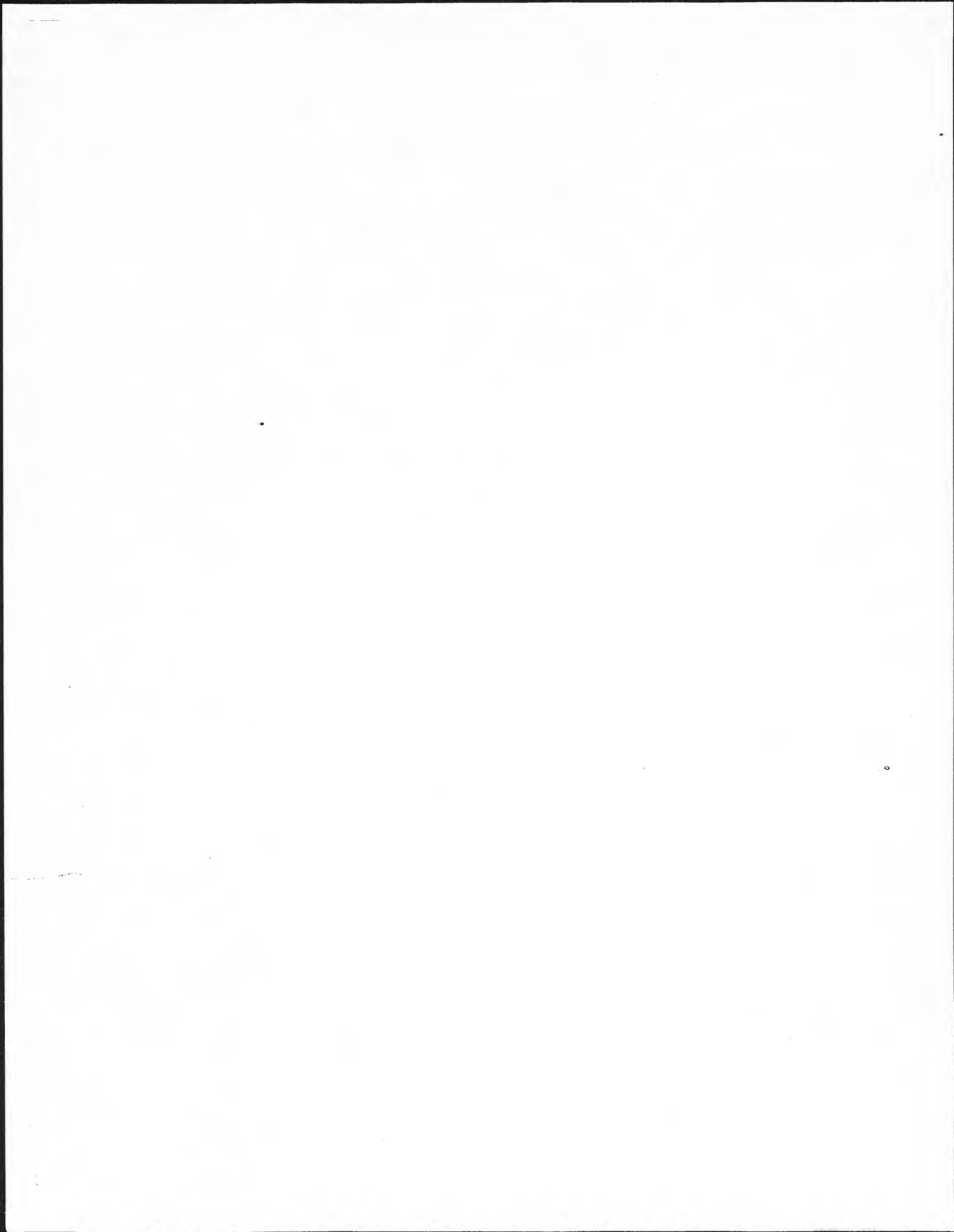
Summary of SERC Winter Bird Counts (1983,1989,1990,1991,1992,1993)

Species	Total Individuals					
	'93	'92	'91	'90	'89	'83
1. Common Loon	1	3	1			
2. Great Blue Heron	8	4	1	4	8	3
3. Tundra Swan	20	85	2	131	68	52
4. Mute Swan		2				
5. Canada Goose	1,098	556	209	1,019	1,477	709
6. Mallard	34	7	19	10	6	52
7. Black Duck	72	62	152	81	40	84
8. Wood Duck			2			
9. Redhead				2		
10. Canvasback	11	180	121	34	1,326	80
11. Lesser Scaup	3	1				
12. Greater Scaup		101				
--. Scaup sp.		276	42	2	206	
13. Ring-necked Duck			3			
14. Common Goldeneye	4	60	3			62
15. Bufflehead	201	451	75	42	52	80
16. Ruddy Duck	4				88	1
17. Red-breasted Merganser		7				1
18. Hooded Merganser	6					
19. Oldsquaw		4	12			
20. Turkey Vulture	19	16	16	39	25	44
21. Black Vulture	47	29	24	5	9	18
22. Bald Eagle	3	3				1
23. Sharp-shinned Hawk	2	1			1	3
24. Red-tailed Hawk	6	4	1	5	5	1
25. Red-shouldered Hawk	4	9	4	4	7	5
26. American Kestrel	2	1	3	4	1	1
27. Marsh Harrier		1				
28. Bobwhite					6	
29. Virginia Rail		1				
30. Kildeer	1			9	4	15
31. Woodcock					1	
32. Herring Gull	8	13	3	10	80	9
33. Ring-billed Gull	31	194	6	23	2	22
34. Great Black-backed Gull	4	5	1	1	1	3
35. Mourning Dove	21	82	8	14	3	40
36. Great Horned Owl	1	1				1
37. Barred Owl				1	1	
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39. Belted Kingfisher	5	6	2	4	4	4
40. Common Flicker	41	52	25	40	39	51
41. Pileated Woodpecker	3	11	3	18	9	6
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Summary of SERC Winter Bird Counts (p.2)


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48. Blue Jay	51	44	14	35	53	98
49. Common Crow	89	54	45	18	53	105
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54. Red-breasted Nuthatch					2	
55. Brown Creeper	4	8	1	10	8	11
56. Winter Wren	4	3		4	6	7
57. Carolina Wren	35	84	26	43	54	21
58. Marsh Wren	3					1
59. Northern Mockingbird	15	20	15	8	20	23
60. Gray Catbird	2	1				1
61. Brown Thrasher	2	3	2			
62. American Robin	9	100		27	38	24
63. Hermit Thrush	4	26		1	13	2
64. Eastern Bluebird	35	17	3	44	16	15
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Species	No. of individuals in sector				Total Indiv.
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7. Canvasback				11	11
8. Lesser Scaup				3	3
9. Common Goldeneye	1		1	2	4
10. Bufflehead	48	1	19	133	201
11. Ruddy Duck				4	4
12. Hooded Merganser				6	6
13. Turkey Vulture	3	6	5	3	17
14. Black Vulture	9	27	11		47
15. Bald Eagle				3	3
16. Sharp-shinned Hawk		1	1		2
17. Red-tailed Hawk	1		3	2	6
18. Red-should. Hawk	2	2			4
19. American Kestrel	1		1		2
20. Kildeer				1	1
21. Herring Gull	3	5		5	13
22. Ring-billed Gull	18	1	12		31
23. Gr. Black-b. Gull			3	1	4
24. Mourning Dove	6		15		21
25. Great Horned Owl			1		1
26. Belted Kingfisher	2	1	2		5
27. Common Flicker	20	2	15	4	41
28. Pileat. Woodpecker	1		2		3
29. Yellow-bellied Sapsucker	1	2	4		7
30. Hairy Woodpecker	1	3	5	1	10
31. Downy Woodpecker	9	7	8		24
32. Red-bellied Woodpecker	8	7	12	6	33
33. Common Crow	23	2	29	35	89
34. Fish Crow	2		1		3
35. Blue Jay	16	3	20	12	51
36. Loggerhead Shrike				1	1
37. Carolina Chickadee	23	8	20	7	58
38. Tufted Titmouse	12	6	14	6	38

Results of 1992 SERC winter bird count (continued - p.2)

Species	No. of individuals in sector				Total Indiv.
	1	2	3	4	
39. White-br. Nuthatch		2	1		3
40. Brown Creeper		1	1	2	4
41. Carolina Wren	10	4	19	2	35
42. Marsh Wren			3		3
43. Winter Wren		1		3	4
44. N. Mockingbird	5	2	4	4	15
45. Gray Catbird				2	2
46. Brown Thrasher			1	1	2
47. American Robin	6	1	1	1	9
48. Hermit Thrush			3	1	4
49. Eastern Bluebird	9		1	25	35
50. Golden-cr. Kinglet	4	6	8	2	20
51. Cedar Waxwing			19	3	22
52. European Starling	24	7	95	7	133
53. Y.-rumped Warbler	6	1	1	1	9
54. House Sparrow			5		5
55. Red-w. Blackbird	10		30		40
56. E. Meadowlark			5		5
57. Common Grackle			2		2
58. N. Cardinal	12	12	30	15	69
59. House Finch	1	4	8		13
60. American Goldfinch	3	2	12	1	18
61. Rufous-s. Towhee	2	1	3		6
62. Dark-eyed Junco	79	7	12	1	99
63. Field Sparrow	10			26	36
64. White-thr. Sparrow	24	25	140	3	192
65. Wh.-cr. Sparrow				1	1
66. Swamp Sparrow		6	19		25
67. Song Sparrow	6	10	36	12	64
68. Savannah Sparrow				1	1
Number of species	43	37	54	46	68

Summary of SERC Winter Bird Counts (1983,1989,1990,1991,1992,1993)

Species	Total Individuals					
	'93	'92	'91	'90	'89	'83
1. Common Loon	1	3	1			
2. Great Blue Heron	8	4	1	4	8	3
3. Tundra Swan	20	85	2	131	68	52
4. Mute Swan		2				
5. Canada Goose	1,098	556	209	1,019	1,477	709
6. Mallard	34	7	19	10	6	52
7. Black Duck	72	62	152	81	40	84
8. Wood Duck			2			
9. Redhead				2		
10. Canvasback	11	180	121	34	1,326	80
11. Lesser Scaup	3	1				
12. Greater Scaup		101				
--. Scaup sp.		276	42	2	206	
13. Ring-necked Duck			3			
14. Common Goldeneye	4	60	3			62
15. Bufflehead	201	451	75	42	52	80
16. Ruddy Duck	4				88	1
17. Red-breasted Merganser		7				1
18. Hooded Merganser	6					
19. Oldsquaw		4	12			
20. Turkey Vulture	19	16	16	39	25	44
21. Black Vulture	47	29	24	5	9	18
22. Bald Eagle	3	3				1
23. Sharp-shinned Hawk	2	1			1	3
24. Red-tailed Hawk	6	4	1	5	5	1
25. Red-shouldered Hawk	4	9	4	4	7	5
26. American Kestrel	2	1	3	4	1	1
27. Marsh Harrier		1				
28. Bobwhite					6	
29. Virginia Rail		1				
30. Kildeer	1			9	4	15
31. Woodcock					1	
32. Herring Gull	8	13	3	10	80	9
33. Ring-billed Gull	31	194	6	23	2	22
34. Great Black-backed Gull	4	5	1	1	1	3
35. Mourning Dove	21	82	8	14	3	40
36. Great Horned Owl	1	1				1
37. Barred Owl				1	1	
38. Barn Owl		1	1			
39. Belted Kingfisher	5	6	2	4	4	4
40. Common Flicker	41	52	25	40	39	51
41. Pileated Woodpecker	3	11	3	18	9	6
42. Red-bellied Woodpecker	33	52	14	23	47	71
43. Yellow-bellied Sapsucker	7	8	5	11	10	6
44. Hairy Woodpecker	9	10	5	13	6	9
45. Downy Woodpecker	24	32	9	19	26	56

Summary of SERC Winter Bird Counts (p.2)

Species	'93	'92	'91	'90	'89	'83
46. Red-headed Woodpecker			3		1	
47. Eastern Phoebe		1	1		2	
48. Blue Jay	51	44	14	35	53	98
49. Common Crow	89	54	45	18	53	105
50. Fish Crow	3			2	1	
51. Carolina Chickadee	58	101	36	87	56	171
52. Tufted Titmouse	38	41	18	43	43	63
53. White-br. Nuthatch	3	3		7	10	8
54. Red-breasted Nuthatch					2	
55. Brown Creeper	4	8	1	10	8	11
56. Winter Wren	4	3		4	6	7
57. Carolina Wren	35	84	26	43	54	21
58. Marsh Wren	3					1
59. Northern Mockingbird	15	20	15	8	20	23
60. Gray Catbird	2	1				1
61. Brown Thrasher	2	3	2			
62. American Robin	9	100		27	38	24
63. Hermit Thrush	4	26		1	13	2
64. Eastern Bluebird	35	17	3	44	16	15
65. Golden-crowned Kinglet	20	7	9	17	22	12
66. Ruby-crowned Kinglet		3	1	1	3	5
67. Cedar Waxwing	22	17	15	76	18	53
68. European Starling	133	267	476	122	11	301
69. Yellow-rumped Warbler	6	35	15	58	42	54
70. House Sparrow	5	42	4	37	10	109
71. Red-winged Blackbird	40	68	901	110	1	113
72. Eastern Meadowlark	5	12			15	
73. Common Grackle	2	2	900	329		
74. Brown-headed Cowbird				3		1
75. Northern Cardinal	69	100	50	78	137	139
76. Purple Finch		1		34		7
77. House Finch	13	17	1	7		
78. American Goldfinch	18	125	17	9	4	29
79. Rufous-sided Towhee	6	21	7	6	9	8
80. Dark-eyed Junco	99	144	31	91	148	215
81. Chipping Sparrow				1		
82. Field Sparrow	36	53	9	17	6	10
83. White-throated Sparrow	192	352	120	119	331	364
84. White-crowned Sparrow	1				1	
85. Savannah Sparrow	1					
86. Swamp Sparrow	25	20	5	5	1	26
87. Song Sparrow	64	34	28	44	54	55
88. Fox Sparrow					1	
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Year	1993	1992	1991	1990	1989	1983
Total Species	68	70	57	60	65	61
Total Individuals	2,845	4,215	3,508	3,053	4,768	3,522